# AUTHOR INDEX VOLUME 48


A'arabi SY 1173
Abas Mazni O 997
Abbas SK 1237
Abeydeera LR 537
Abukawa T 617
Adams GP 757, 1093
Alanko M 687
Algire J 377
Allen CH 1255
Amann RP 313
Ames NK 11
Andersson M 687
Aoyagi Y 641
Arav A 1017
Armstrong DT 1153
Ashmawy O 151
Aurich C 185
Aurich JE 185
Aziz DM 559

Badzinski SL 313
Baguisi A 1017
Bailey LL 43
Ball BA 1191
Bar-el M 341
Barash I 485
Barnabe RC 581
Bartels JE 1061
Bartlewski PM 99, 1093
Batellier F 391
Beard AP 99, 119, 1093
Beckers JF 133
Beckett SD 1061
Belanger D 449
Belluzzi S 1301
Bergfelt DR 757
Bergonzoni ML 1301
Bertani GR 933
Besenfelder U 545
Bevers MM 133
Billard R 589
Blanchard TL 1085, 1199
Blondin P 803
Blouin D 919
Bobadov N 1343
Bogacki M 733, 1287
Boland MP 161, 299, 1017
Bonet S 947
Boni R 277
Bor A 485
Borchert T 151
Bordignon V 291
Borg K 531
Bousquet D 291, 1275
Boyazoglu S 1
Brahmkshtri BP 501
Bredbacka P 361
Brem G 545, 659
Brevini TAL 659
Brikas P 1049
Brindle Y 1275
Brink Z 1255
Briz M 947
Brock KV 171
Brophy DT 1025
Browning R 257
Bullock KD 1025
Burba D 919

Caiza de la Cueva FI 947
Callesen H 1379
Cappai P 1
Carabin H 449
Care AD 1237
Carnegie JA 377
Carpenter DB 625
Carson AF 193
Castanon R 651
Casu S 1
Catt SL 1369
Cattell MB 1255
Cestnik V 411
Chandler JE 1173
Chandolia RK 99, 119
Charpigny G 659
Chauhan MS 461
Chen CH 1265
Cheong HT 1137
Chung KS 329, 791, 843, 1351
Colenbrander B 531
Combes GB 1085
Constable PD 775
Correa JR 721
Corselli J 43
Cosson J 589
Crosby TF 1017
Cseh S 43

D'Agaro E 1301
Dahlbom M 687
Dalimata AM 831
Das SK 461
Day BN 537
De Cock H 1035
de Kruif A 513
de las Heras MA 651
De Schepper J 1035
Dekel I 485
den Daas JHG 1071
Derecka K 51
Dessy F 1387
Diaz T 435
Dierschke DJ 1093
Do JT 1351
Dobrinski I 1191
Doize F 449
Donnay I 1387
Dreanno C 589
Drost M 435
Ducatelle R 1035
Dumford R 377
Dupore AM 907
Durocher J 291

Eckersall PD 411
Edwin MJ 501
Eiler H 1147
Eleftheriou P 143
Embertson R 919
Emond S 151
Evain A 907
Evans G 1369

Fagnan MS 1191
Fan BQ 33
Farin CE 699
Fauquant J 391

## AUTHOR INDEX VOLUME 48


Fazeli A 531
Fazeli MM 1061
Fecteau KA 1147
Fialho FB 933
Fierville F 589
Figuereido JR 133
Frazer G 919
Friedler A 485

Galeotti M 1301
Galik PK 171
Gallus M 1
Gandolfi F 659, 1153
Garofalo EG 1105
Garrett P 1061
Gartley CJ 1329
Ginther OJ 75, 757
Gomez E 63
Goncalves PBD 933
Goodrowe KL 1329
Goonewardene LA 151
Gootwine E 485
Graham JK 831, 1255
Greve T 1379
Guevara L 1185
Guilbault LA 803
Guitton E 1229

Hage WJ 471
Hallford DM 625
Ham A 651
Hance S 919
Harada M 743
Hasler JF 171, 563, 699
Hawkins DE 625
Hay MA 1329
Hazen MJ 513
Heller M 485
Higgins HC 193
Hill JL 161
Hishinuma M 606
Holland MD 1255
Holloway JW 257
Holm P 1379
Holmes PH 411
Honaramooz A 119
Hoppe H 185
Hostetler DE 11
Huhn J 775
Huhtinen M 361
Hulshof SCJ 133
Hung Li-sang 625
Hurtgen PJ 563
Hynes N 299

Iga K 1127
Iorio G 651
Irons PC 353
Ivanova-Kicheva MG 1343
Izquierdo MD 815

Jaakma U 711
Jaeger S 151
Jaikhani S 233
Jeffcoate I 411
Jillella D 985
Jin ZQ 563
Johnson L 1199
Johnson LA 209, 1255
Jones GV 1237
Joshi CG 501
Julienne P 907

Kafi M 985
Kanagawa H 606
Kaneko K 617
Kann G 143
Karagiannidis A 1049
Karatzas G 1049
Katila T 1085, 1217
Katiyar PK 461
Kato S 743
Kato Y 977
Katska L 551
Kawakami S 617
Kerboeuf D 1229
Kesler DJ 89
Kim CJ 1137
Kim JH 1351
Kim N-H 329, 791, 843, 1351
King WA 1329
Kirkland PD 985
Kishi M 1161
Kogut J 277
Koide SS 241
Konishi M 641
Koo DB 329, 791, 1351
Kot K 75
Kotwica J 733, 1287
Koutsotolis K 143
Koyama N 769
Krishnan AR 501
Kruip ThAM 277
Kuhholzer B 545
Kulick LJ 75
Kumar GP 241
Kumar M 233

Labernia J 865
Labrique V 1387
Laloraya M 241
Larsson B 221, 711
Lauria A 1153
LeBlanc M 919
Ledda S 1
Lee HT 329, 791, 843, 1351
Lee JH 1137
Lee M 329
Leibo SP 1329
Levern Y 1229
Lewis GS 267
Leyva-Ocariz H 19
Li CJ 33
Lim J-G 843
Lim JG 329
Linde-Forsberg C 247
Loi P 1
Lopez-Bejar M 865
Lopez-Gatius F 865
Losinno L 1361
Lucciola J 19
Luciano AM 1153
Lundeheim N 221

Macia A 651
Mackie DP 193
Macmillan KL 369

# AUTHOR INDEX VOLUME 48

Madan ML 233, 461
Madrid-Bury N 1115
Magistrini M 391, 1229
Malmgren L 523, 531
Manik RS 233
Mantzios A 143
Marcus S 341
Martinez AG 651
Martus NS 699
Massip A 659, 1387
Matsui M 606
Matsumura K 743
Maxwell WMC 209, 1369
McCaughey WJ 193
McCue PM 313
McGowan MR 985
McMillan WH 369
Meersma N 873
Meikle A 1105
Melin P 1287
Mermillod P 659
Mijten P 513
Minami N 1007
Miragaya MH 1361
Miro J 947
Miyake M 743
Miyano T 743
Miyoshi M 617
Mochizuki M 617
Modina S 1153
Mogas T 815
Monks RS 299
Morgan G 1237
Morgan J 377
Morin DE 775
Morin N 291
Moses D 651
Muller S 545
Murphy RP 299
Mutayoba BM 411

Nagai M 1161
Nagao Y 1161
Naitana S 1
Nebel RL 369
Negishi H 241
Nehlsen-Cannarella SL 43
Nelson CF 1025
Nelson LD 1025
Nett TM 313
Nicolle J-CI 1229
Nieman NM 1025
Nikolaou E 143
Nishikimi A 1007
Niwa K 711, 1127
Noqueira GP 581
Normant Y 589
Nothling JO 353
Noue P 907

O'Brien JK 1369
O'Doherty EM 161
O'Shaughnessy PJ 411
Okime E 151
Omeke BC 99, 119
Osaki S 743
Otoi T 769
Ott EA 893

Paccamonti D 919
Pace MM 721
Palme R 873
Palmer E 391, 907, 1229
Palomo MJ 815
Palta P 233, 461
Papaioannou KZ 299
Paramio MT 815
Parent S 1275
Park CK 1137
Park KW 1127
Parlevliet J 531
Patterson DJ 1025
Peclaris GM 143
Peippo J 361
Peltier MM 893
Peltier MR 893
Perl S 341
Pessi H 651
Pierson R 119
Pierson RA 99
Pieterse MC 277
Pitt CJ 369
Pocar P 1153
Ponzini A 1153
Pujol MR 947
Purohit RC 1061
Purvis II HT 423
Puzzar S 19

Quemener L 589

Rall WF 1071
Ramirez Iglesia L 1185
Randel RD 257
Rawlings NC 99, 119, 1093
Reinaud P 659
Riddel KP 171
Riddel MG 171
Rigau T 947
Roche JF 299, 1017
Rodriguez M 1105
Rodriguez-Gill JE 947
Rodriguez-Martinez H 221, 711, 1115
Roelofsen MWM 277
Roser JF 883
Rota A 247
Roussel JD 1173
Rubianes E 1093
Rubin MIB 933
Rutllant J 865
Ryan MP 299

Saeki K 1161
Samake S 969
Santolaria P 865
Sayre BL 267
Scheid IR 933
Schillo KK 1025
Schmitt EJP 435
Schonherr U 185
Schotanus K 471
Scrutchfield WL 1199
Seidel Jr GE 1255, 1265
Sekikawa K 997
Seregi J 545
Shani M 485
Shanks RD 775

# AUTHOR INDEX VOLUME 48

Sharp DC 893
Shemesh M 341
Shore LS 341
Silva-Mena C 675
Sirard M-A 803
Sivaselvam SN 501
Skarzynski DJ 733, 1287
Skrzyszowska M 551
Smith CA 757
Smith LC 291, 969
Smorag Z 551
Soderquist L 1115
Somlev B 1343
Song H 1351
Soto Belloso E 1185
Soto Castillo G 1185
Sotomaru Y 977
Sprecher DJ 11
Squires EL 313
Staroska B 1287
Steen RWJ 193
Stojkovic M 659
Stokes JE 563, 699
Stringfellow DA 171
Strom B 247
Sullivan R 1275
Suzuki T 769
Szalay AA 43
Szenci O 873

Tachikawa S 769
Taha MB 559
Takahashi Y 606
Takedomi T 641
Taniguchi T 997
Tasende C 1105
Taverne MAM 873
Terqui M 659
Thatcher MJ 435
Thatcher WW 435
Treuer A 545
Tsunoda Y 977

Utsumi K 1007

Vaillancourt D 449
Vajta G 1379
Valcarcel A 651
Valk N 1147
van den Bogaard AEJM 513
van den Hurk R 133, 471
Van Langendonckt A 659, 1387
van Wagtendonk-de Leeuw AM 1071
Vanderstichele H 133, 471
Vansteenbrugge A 659
Varga J 873
Varner DD 1085, 1199
Varsakeli S 1049
Vermeirsch H 1035
Verreschi ITN 581
Vidament M 907, 1229
Vierula M 687
Vishwanath R 369
Volkmann DH 353
Volpatti D 1301
Volpelli LA 1301

Wade MG 161
Wan PY 1147
Warrington BG 257
Watts JR 1313
Welch GR 1255
Wentz I 933
Whitmore W 151
Whittier JC 423
Wilmut I 1
Wiltbank LC 75
Wissink E 873
Wolf E 659
Wolfe DF 1061
Wolfsdorf K 435
Wooding FBP 1237
Woods BL 1025
Woods GL 1361
Wright JC 171
Wright PJ 1313

Yamada M 1007
Yamamoto K 769
Yamanaka H 997
Yamanaka S 617
Yamini B 11
Yang BK 1137
Yazawa S 641
Yoshihara S 617
Yoshioka K 997
Yupsanis T 143

Zaharoni U 485
Zavos PM 721
Zenue A 485
Zhang BR 221, 711
Ziecik AJ 51

# SUBJECT INDEX VOLUME 48


5bromo4chloro3indolyl-β-D-galactopyranoside 329
6-dimethylaminopurine oocyte 1161

abdominocentesis mare 919
abortion induced dog 1313
acetamide sperm rabbit 831
acetoacetate susbtrate embryo cow 63
acrosin amidase sperm stallion 1191
acrosome evaluation bull 1007
  reaction boar 843
activin receptor follicle cow 133
adrenergic system polyspermia pig 1351
age estimation fetus ewe, goat 449
albumen binding spermatozoa bull 1275
alginate-poly-L-lysine matrix for semen bull 369
Alpine goat 151
altrenogest stallion 313
aneuploidy mouse 1173
Angus bull 257
anovulation mare 1361
antifreeze proteins embryo ewe 1017
antioxidants sperm membrane stallion 185
aphidicolin synchronized cell division cow 969
artificial insemination cow 1255
    bull 369,721
    goat 151
  intrauterine ewe 267
  laparoscopic ewe 651
  timing cow 865
    pig 933
ascorbic acid sperm membrane stallion 185
atresia coli cow bull 775
Awassi ewe 559
azoospermia stallion 883

β-carotene ovarian function mare 893
β-d-hydroxybutyrate substrate embryo cow 63
bacterial sepsis hysterotomy cow 513
blastocyst development cow 161,377
  implantation rat 241
  production in vitro cow 699
blastulation media cow 997
bovine activin A 133
bovine pestivirus fertility cow 985
bovine viral diarrhea virus 171

Bubalis bubalus 233,461,501
bull effect zebu 1185

cabergoline in pregnant rat 241
caffeine oocyte penetration sperm boar 537
calcitriol chorion ewe 1237
calcium clorpostenol dog 1313
  ionophore cleavage cow 1265
  oocyte penetration by sperm boar 537
  uptake chorion ewe 1237
Carora breed cow 19
castration non-surgical male mouse 193
catalase sperm membrane stallion 185
cesarean section cow 513
cesarean section retained placenta cow 1147
chimera mouse 977
chorion interplacentomal ewe 1237
chromosomal abnormalities mouse 1173
cleavage synchrony embryo cow 969
collagenase retained placenta cow 1147
computerized image analysis sperm dog 687
concavalin A lectin sperm bull 1007
congenital disorder cow bull 775
cool storage embryo ewe 1017
cooling semen stallion 1217
  sperm membrane boar 209
corpus cavernosum penis goat 1061
corpus luteum function ewe 1093
  response PGF2α cow 733
cortical granules exocytosis pig 1351
cryopreservation embryo cow 1071
  semen turbot 589
    dog 247, 1329
    rabbit 831
    ram 1115
    stallion 531,947
cytogenetic analysis horse 361
cytogenetics mouse 1173
cytometry sperm rabbit 831
    stallion 299,1229

demi-embryo production cow 551
    rabbit 551
development rate embryo ewe 1369
DNA microinjection embryo pig 329
dopamine agonist rat 241
dystocia haptoglobin ewe 559
    mare 919
  norgestomet implants cow 89

embryo biopsy horse 361
  cell division cow 969
  cloning ewe 1
  collection goat 485

# SUBJECT INDEX VOLUME 48


cryopreservation cow 1071
ethylene glycol cow 563
glycerol cow 563
mouse 43
culture media cow 1387
method cow 1379
with bovine viral diarrhea virus 171
development cow 63, 221,605,769,997
cow 1265
ewe 1017
goat 815
pig 329, 791
growth factor cow 1127
transfer cow 641
ewe 1369
viability pig 933
vitrification cow 1071
embryotrophic medium 659
endoscopic ovum pickup ewe 545
energy substrates embryo cow 63
epididymal maturation spermatozoa bull 1275
estradiol in plasma after β-carotene mare 893
effect on uterus weight prepubertal ewe 1105
serum mare 581
estrogen receptor uterus dog 1035
unconjugated in feces pig 873
estrous cycle follicle stimulating hormone cow 757
estrus postpartum zebu 1185
re-synchronization cow 423
synchronization cow 369,1025
ewe 651,1093
goat 1049
exocytosis cortical granules pig 1351
extender semen stallion 391,1217

fecal estrogen pig 873
feed intake after glucose ram 625
fertilitty tropics zebu cow 1185
fertility bull 721
cow 221,865
evaluation buffalo bull 501
after retained placenta cow 617
stallion 883,907
fertilization in vitro methods cow 711
fetal fluids cow 513
fetotomy mare 919
fetus death intrauterine dog 353
fish marine 589
fluorescent probes sperm stallion 523
foil bag culture system 1379
follicle aspiration ewe 545
transvaginal cow 291
development buffalo 233
in vitro cow 471
dominance cow 435
emergence cow 75
number ovary cow 1153
puncture repeated cow 277
recruitment cow 277
wave cow 75
follicular dynamics cows 277
fluid in IVM medium buffalo 461
phase of estrous cycle cow 757
folliculogenesis activin cow 133
β-carotene mare 893
freezing rapid embryo mouse 43
FSH in bull calf 119
oocyte cow 743
starvation ovary cow 803
surge estrous cycle cow 757
FSH-induced folliculogenesis cow 435

gene expression embryo pig 329
LH/hCG receptor pig 51
gestation prolonged dog 353
GnRH in luteal phase ewe 1093
antibodies monoclonal mouse 193
ocyte recovery cow 291
superagonist ram 99
gonads LH receptor pig 51
granulosa cell murine lines cow 471
cell tumor in nulligravida cow 11
growth hormone after glucose ram 625
growth rate mare 581
haptoglobin dystocia ewe 559
hemodynamics penis goat 1061
heritability atresia coli cow bull 775
hormonal control spermatogenesis stallion 1199
hypoxanthine oocyte cow 743

IGF-1 receptor embryo cow 605
in vitro maturation oocyte cow 1153
infertile bull 341
infertility male dog 687
inherited disorder cow bull 775
Inhibin plasma buffalo 233
inner cell mass pluripotency mouse 977
insulin after glucose ram 625
in embryo cow 605
intracytoplasmic sperm injection cow 1265
intrauterine fluid mare 1361
ionic pump spermatozoa stallion 947

# SUBJECT INDEX VOLUME 48

IVF and bovine viral diarrhea virus 171
cow 1127
dog 1329
pig 843, 1137, 1351

laparoscopic insemination ewe 267,651
laparoscopy ovarian follicle ewe 545
leukemia inhibitory factor cow 377
Leuprolide acetate ram 99
Leydig cell function ram 411
LH after GnRH and glucose ram 625
in bull calf 119
in serum after altrenogest stallion 313
surge estrous cycle cow 757
luteal phase estrous cycle cow 757
luteolysis dog 1313
failure dog 353
mechanism cow 1287

mammary development ewe 143
mast cells in utero cow 1301
media blastocyst culture cow 1387
for blastulation cow 997
embryo development pig 791
follicle cow 471
oocyte buffalo 461
development cow 711
maturation cow 1127
media oocyte maturation mouse 1173
various comparisons 699
medium 199 embryo cow 699
oviduct-conditioned 659
meiosis inhibition cow 1161
mouse 33
in sperm stallion 1199
meiotic competence oocyte cow 743
melatonin mammary development ewe 143
melengesterol acetate per os cow 423
menezo's B2 medium embryo cow 699
methyl cellulose rabbit 831
microscopy scanning confocal laser 471
milk fraction semen diluents stallion 391
mitochondria oocyte mouse 33
sperm stallion 299
mitogenic activity media 659

neoplasm ovarian malignant cow 11
noradrenaline progesterone secretion cow 1287
norgestomet implants pregnancy cow 89
nuclear transfer cow 641
ewe 1
nucleated cells peritoneal fluid mare 919
nutrition in mammary development ewe 143
in pregnancy rate goat 151

oligospermia stallion 883
ontogeny gene expression pig 51
oocyte activation cow 1265
culture methods cow 161
development cow 291,711,769,803,1153,1161
pig 843
harvest ewe 545
maturation buffalo 461
cow 1127
goat 815
media mouse 1173
pig 1137
morphology goat 815
penetration by sperm boar 537
dog 1329
polyspermic penetration pig 1351
recovery rate GnRH cow 291
ovarian oxytocin function cow 1287
ovariectomy pregnant cow 89
ovary harvest postmortem cow 803
prepubertal ewe 1105
oviduct epithelial cells co-culture cow 377
inflammation mare 1361
prepubertal ewe 1105
-conditioned medium 659
oviductal filters ewe 1
ovulation rate cow 985
oxytocin antagonist cow 1287
fertilization rate ewe 267
ovarian cow 733

parthenogenic activation mouse 33
parturition mare 919
penis blood flow goat 1061
Percoll gradient centrifugation sperm bull 1275
peritoneal fluid analysis mare 919
peroxidation sperm membrane lipids stallion 185
placenta biochemistry ewe 1237
pluripotency blastocyst cells mouse 977
polymerase chain reaction horse 361
polyspermy boar 843
postpartum cow 1025
exposure to bull zebu 1185
potassium extracellular sperm boar 843
pregnancy diagnosis pig 873

## SUBJECT INDEX VOLUME 48


rate after β-carotene mare 893
embryo freezing cow 1071
pig 933
prepubertal mammary development ewe 143
oocyte goat 815
progesterone after cabergoline rat 241
in plasma after β-carotene mare 893
cow 985
prepubertal ewe 1105
secretion cow 1287
serum mare 581
oral cow 1025
prolactin after glucose ram 625
pronucleus formation pig 1137
prostaglandin F2α CL response cow 733
cow 1287
dog 1313
luteal phase ewe 1093
prostate development bull 119
ram 99
protein peritoneal fluid mare 919
proteins cryoprotectant ewe 1017
puberty bull 675
cow 19
mare 581
pyometra dog 1035

rabbit serum in bovine embryo culture 1387
receptors sex steroid prepubertal ewe 1105
retained placenta cow 617,1147
rheological character vaginal fluid cow 865

Saanen goat 151
Sarda breed sheep 1
Scophtalmus maximus 589
scrotal circumference bull 675
width after altrenogest stallion 313
scrotum insulation ram 411
season effect spermatozoa goat 1049
semen characteristics after altrenogest stallion 313
cryopreservation goat 1049
ram 1115
stallion 907,947
evaluation bull 675,721
stallion 523
extender stallion 391,1217
frozen pig 933
handling stallion 1217
microencapsulated bull 369
thawing methods stallion 531
transport containers stallion 1085
Senepol bull 257
sex diagnosis embryo horse 361
ratio and rate of embryo development ewe 1369
steroid receptors prepubertal ewe 1105
sexual behavior stallion 313
sperm buoyancy bull 1275
cool storage stallion 391
cryopreservation turbot 589
dog 247, 1329
rabbit 831
stallion 531
evaluation bull 1007
stain stallion 1229
fertility seasonal goat 1049
freezing tolerance stallion 907
sperm function tests bull 721
hypo-osmotic swelling stallion 523
in vitro preparation bull 711
membrane cryopreservation boar 209
evaluation ram 1115
integrity stallion 523,531
morphology stallion 523
morphometry dog 687
sexing bull 1255
staining stallion 299
viability assessment dog 247
stallion 299
-oocyte binding stallion 523
spermatogenesis stallion 883,1199
spermatozoa low numbers insemination cow 1255
osmotic stress effect stallion 947
stallion 1085,1191
spermiogenesis stallion 1199
stain techniques sperm stallion 1229
steroidogenesis leydig cell ram 411
submarine incubation system embryo cow 1379
suckling postpartum zebu 1185
superovulation buffalo 233
cow 291,803,985,1025
goat 485
superoxide dismutase oocyte pig 1137
SV40-LacZ gene expression pig 329
Syncro-Mate-B cow 423

teratozoospermia dog 687
testes development bull 119
ram 99
function stallion 883
microstructure stallion 1199
size heritability breed bull 257
testosterone cryptorchid bull 341

## SUBJECT INDEX VOLUME 48

with granulosa cell tumor cow 11
in bull calf 119
in serum after altrenogest stallion 313
serum bull 675
thixotropy cow 865
thyroxin after glucose ram 625
puberty cow 19
transcervical insemination ewe 267
transgenic goat 485
trehalose sperm rabbit 831
triiodothyronine puberty cow 19
trophectoderm pluripotency mouse 977
tropics puberty cow 19
Trypanosoma congolense 411
Tuli bull 257
turbot spermatozoa cryopreservation 589

ultrasonographic pregnancy diagnosis ewe 651
pregnancy diagnosis pig 873
ultrasonography male reproductive tract ram 99
ovarian follilcle cow 75
ovary cow 11
ewe 1093
placentome ewe, goat 449
reproductive tract bull 119
uterine disease dog 1035
horn insemination cow 1255
uterus bacteria retained placenta cow 617
cytology cow 1301
cytology retained placenta cow 617
inflammation mare 1361
prepubertal ewe 1105

vero cells mitomycin co-culture cow 377
vesicular glands bull 119
ram 99
virilism and granulosa cell tumor cow 11
vitrification embryo cow 1071

zona pellucida dog 1329
zona-drilled blastocyst cow 551
rabbit 551
zona-free hamster ova buffalo bull 501